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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/619,615	07/19/2000	Hyun Duk Cho	K-190	2166

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EXAMINER

KASSA, YOSEF

ART UNIT	PAPER NUMBER
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2625

DATE MAILED: 12/22/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)	
	09/619,615	CHO ET AL.	
	Examiner	Art Unit	
	YOSEF KASSA	2625	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 02 August 2004.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-5,8-14 and 20-23 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☒ Claim(s) 6,7,15-17 and 19 is/are allowed.
- 6) ☒ Claim(s) 1,5,8-14 and 20-23 is/are rejected.
- 7) ☒ Claim(s) 2-4 is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 19 October 2000 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on _____ is: a) ☐ approved b) ☐ disapproved by the Examiner.
- If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

- 13) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
- a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

- | | |
|----------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) Paper No(s). _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449) Paper No(s) _____ | 6) <input type="checkbox"/> Other: _____ |

Response to Arguments

1. Applicant's arguments, (page 10-16) filed on August 02, 20032004, with respect to claims 1-19 under Sprague (U.S. Patent 5,699,458) and Kieihorst (US Patent 6,349,154) have been fully considered and are persuasive. Therefore, the rejection has been withdrawn. However, upon further consideration, a new ground(s) of rejection is made in view of Brusewitz et al (U.S. Patent 6,038,257).

Claim Rejections - 35 USC § 103

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 1, 8-14 and 20-23 are rejected under 35 U.S.C. 103(a) as being unpatentable over Sprague (5,699,458), further in view of Brusewitz et al (U.S. Patent 6,038,257).

With regard to claim 1, Sprague discloses a first core part that encodes (see Fig. 4, item 410) a moving picture, i.e., video image, (see Fig. 3, item 301) at a first quantizing value (see Fig. 4, item 408) corresponding to a first display resolution (see col. 3, lines 63-67) and VLC that encodes data encoded at the first core part in lengths different from each other (see col. 7, lines 29-39); and an output unit that outputs an encoded bit stream of output data of the VLC (see Fig. 4, item 416).

Sprague does not explicitly call for encodes a frame unit still picture with a corresponding second higher resolution. In the same field of endeavor, however, Brusewitz et al discloses this feature (see col. 5, lines 54-60). At the time of the invention, it would have been obvious to incorporate the teaching of Brusewitz et al high resolution still image processing system into sprague's system. The motivation doing so is to transmit and display high resolution still images on a video system.

With regard to claim 8, Brusewitz et al discloses extracting a frame unit of a still pictures from a moving picture (see col. 5, lines 8-14); encoding the extracted still picture and the moving picture (see col. 5, lines 54-61); and selectively transmitting one of the encoded still picture and the encoded moving picture (see col. 6, lines 7-17), wherein the encoded still picture is at a higher resolution than the encoded moving picture (see col. 5, lines 44-52).

Brusewitz et al does not explicitly call for transmitting the encoded still picture at a higher resolution than the encoded moving picture. In the same field of endeavor, however, Kleihorst discloses this feature (see col. 1, lines 50-60). At the time of the invention, it would have been obvious to incorporate a high resolution still image processing as taught by Kleihorst in the system of Brusewitz et al because Kleihorst provides Brusewitz et al system a step of creating a higher resolution still image from a compressed low resolution video sequence.

With regard to claim 9, Brusewitz et al discloses encoding the extracted still picture in a fixed quantizing value and storing the quantized still picture (see col. 5, lines

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54-61), and wherein the transmitting comprises transmitting the stored still picture in a still picture transmission mode (see col. 6, lines 7-12).

With regard to claim 10, Brusewitz et al discloses the quantized still picture is stored in a frame memory in a decoder of a picture terminal (see Fig. 1, item 26).

With regard to claim 11, Brusewitz et al discloses the encoding the extracted still picture comprises encoding the still picture in an I picture coding, and wherein the transmitting comprises transmitting the encoded moving picture in a moving picture mode (see col. 6, lines 7-17).

With regard to claim 12, Brusewitz et al discloses the encoding comprises repeatedly encoding the extracted still picture until the still pictures have a prescribed resolution (see col. 6, lines 7-14).

Claim 13 is similarly analyzed as claims 1 and 8.

With regard to claim 14, Brusewitz et al discloses the still pictures are stored in a frame memory in a decoder of a picture terminal (see Fig. 1, item 26).

With regard to claim 20, Brusewitz et al discloses one of the encoded still picture and encoded moving picture is selectively transmitted in response to a user selection signal (see col. 5, lines 8-14).

With regard to claim 21, Brusewitz et al discloses the stored still picture is encoded at the second resolution based on a quantizing value determined by a state of a channel buffer (see col. 3, lines 14-22).

With regard to claim 22, Brusewitz et al discloses the second resolution is greater than the first resolution (see col. 6, lines 7-14).

With regard to claim 23, Brusewitz et al discloses decoding the transmitted still picture based on the encoded difference, to thereby reproduce a still picture having a resolution greater than the first resolution (see col. 6, lines 34-44).

Allowable Subject Matter

3. Claims 2-5 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

4. Claims 6, 7, 15-17 and 19 are allowed.

The following is an examiner's statement of reasons for allowance. The closest prior art of record failed to teach or suggest, controls a data flow according to the moving picture mode or the still picture mode to store the still picture to be transmitted in the still picture mode to the decoding frame memory, and performs control for repeated encoding of the still picture frame, a first multiplexer and second multiplexer that selects either one from the moving picture frame and the still picture frame stored in the decoding frame memory to forward to the encoding core part under the control of the controller frame and in combination with all the other limitations in the claims 6, 7, 15-17 and 19 are allowable.

Other Prior Art Cited

5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

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US Patent No. (6,384,862) to Brusewitz et al discloses imaging system and method for interactive control of image quality.

US Patent No. (5,161,018) to Matsunaga discloses noise reduction system for color television signal.

US Patent No. (5,987,179) to Riek et al discloses method and apparatus for encoding...

US Patent No. (5,159,453) to Dhein et al discloses video processing method and apparatus.

Conclusion

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to YOSEF KASSA whose telephone number is (703) 306-5918. The examiner can normally be reached on Monday-Thursday from 8:00 AM to 6:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, BHAVESH MEHTA can be reached on (703) 308-5246. The fax phone numbers for the organization where this application or proceeding is assigned is (703) 872-9306 for regular communication and (703) 872-9306 for after Final communications.

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Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the customer service office whose telephone number is (703) 306-5631. The group receptionist number for TC 2600 is (703) 305-4700.

For more information about the PAIR system, see <http://pair-direct.uspto.gov>.

Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

PATENT EXAMINER

Yosef Kassa

A handwritten signature in black ink, appearing to read 'Yosef Kassa', is written over the printed name and date.

04/28/04.